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## ABSTRACT

This compilation of programs for training physician support personnel, as of March 1, 1971, includes 125 programs in 35 states. Of these, 47 extend nursing roles and 78 accept students with varied qualifications. At least 60 programs are presently operational, with about 1,000 students in training and an equal number of graduates. The programs in the compilation are categorized as follows: Programs with Varied Entrance Requirements; Programs for Extending Nursing Roles; and Planned or Operational Programs Not Summarized in Detail. It is suggested that those who use this compilation for student counseling or for selecting a training opportunity should check the status of the individual training program. (DB)

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
OFFICE OF EDUCATION

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ER DATA SERIES

# PHYSICIAN SUPPORT PERSONNEL

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
Public Health Service      National Institutes of Health

March 1971

The Division of Manpower Intelligence, established in the Bureau of Health Manpower Education in 1970 to provide a focus for the development, interpretation, coordination, and evaluation of health manpower education information, publishes five report series, as follows:

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SELECTED TRAINING PROGRAMS FOR PHYSICIAN SUPPORT PERSONNEL

June 1970  
Revised March 1971

Department of Health, Education, and Welfare  
National Institutes of Health  
Bureau of Health Manpower Education  
Division of Manpower Intelligence

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#### ACKNOWLEDGMENTS

The cooperation of the American Academy of Pediatrics and the various program directors in making available the information is gratefully acknowledged.

## Introduction

Programs for training physician support personnel have greatly proliferated in the past year. The original compilation of such programs in June 1970 identified 67 programs, 39 of which were described in detail. Of these 39, 17 required a background in nursing as a prerequisite.

As of March 1, 1971, the cut-off date for the inclusion of new materials in this compilation, 125 programs in 35 states have been identified as meeting the criteria for inclusion. Of these, 47 extend nursing roles and 78 accept students with varied qualifications. At least 60 programs are presently operational, with about 1,000 students in training and an equal number of graduates.

The programs included here are those which we have been able to identify as of March 1971. An exhaustive survey of such programs is currently underway, and the information collected will be included in a future edition of this publication. The Professional Requirements Branch would appreciate your help in identifying additional programs which should be included.

No endorsement or assurance of quality is inferred by the inclusion of programs in the compilation, and accreditation status is not given. Criteria for inclusion of a program in this compilation are:

1. The program is operational, in pilot testing stage, or in advanced planning, with assurance of financial support and operation within a year.
2. As of March 1971, accreditation standards do not exist, are being developed, or have only recently been developed.
3. For admission, students must have completed high school or its equivalent and the program provides either:
  - a. Short- or long-term training to expand the capabilities of persons with previous health service training and experience, or
  - b. Long-term training for persons with no previous formal health service training or experience.
4. The resultant health professional would have identification differentiated from traditional health professions as they currently exist, and would work under the direction of a physician or physicians to perform tasks the physician would have to perform in the absence of this specially-trained individual.

## Accreditation and Guidelines for Developing Programs

Programs for orthopedic assistants continue to be included in the compilation, constituting an example of programs for which accreditation



procedures have recently been developed. The American Academy of Orthopedic Surgeons, working with the appropriate organizations, has submitted materials justifying the development of orthopedic assistants as a new category of allied health professional. This justification has been approved by the American Medical Association (AMA) Council on Health Manpower, and essentials for training have been developed by the AMA Council on Medical Education. The training programs in San Francisco and Iowa for orthopedic assistants are prototype programs meeting the established requirements. Candidates for training interested in the accreditation status of orthopedic assistant programs should check with the program directors or with the AMA Department of Medical Education.

At the present time, the American Urological Association is working actively with the AMA to establish the mechanisms for accrediting urologic assistant training programs.

The American Academy of Pediatrics and the American Nurses Association have developed and issued joint guidelines for Pediatric Nurse Associate training programs. Similar negotiations are being carried out between the American Academy of Pediatrics and the American Association of Medical Assistants with regard to training programs for pediatric assistants. These efforts are being coordinated with the AMA. Persons interested in training in these categories may seek information about the status of a given training program from the program director of the American Academy of Pediatrics.

The American Society of Internal Medicine, American Academy of Pediatrics, American Academy of Family Physicians, and American College of Physicians are currently working with the AMA to develop guidelines for assistants to primary care physicians. As of March 1, 1971, however, the details have not been completely developed.

Other organizations which have published statements defining types of physician's assistants include the National Academy of Sciences, the Association of American Medical Colleges, and the American Hospital Association. The guidelines developed by the AMA Council on Health Manpower for the development of new health occupations were published in the August 17, 1970 issue of the Journal of the American Medical Association, and copies are available from the AMA.

#### For Counsellors and Prospective Students

In view of the rapid developments in this field, persons using information contained in this compilation for student counselling or for the selection of training opportunity should carefully check the status of training standards for the particular category as well as the status of the individual training program. Prospective students are also advised to be fully aware of the legal status of the particular category in their State. To date, at least 6 states have passed legislation enabling physicians to delegate tasks to physician's assistants and other similar personnel (Arizona, Colorado, Kansas, Oklahoma, California, and Florida), and at least 12 others are known to be considering such legislation.

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\* Probably a program for extending nursing roles.

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\* Probably a program for extending nursing roles.

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Probably a program for extending nursing roles.



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\* Probably a program for extending nursing roles.

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\* Probably a program for extending nursing roles.

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\* Probably a program for extending nursing roles.

## PROGRAMS WITH VARIED ENTRANCE REQUIREMENTS

INSTITUTION: University of Alabama Medical Center  
1919 Seventh Avenue South  
Birmingham, Alabama 35233

PROGRAM DIRECTOR: William Harlan, M.D.  
Assistant Dean, Division of Family Practice and  
Ambulatory Medicine

PROGRAM TITLE: MEDEX

STAGE OF DEVELOPMENT: Operational

CURRICULUM: This is a one-year program consisting of alternating  
periods in didactic studies and clinical experience  
with a preceptor. Students are pre-matched with  
a preceptor before entering the program.

DEGREE OR CERTIFICATE  
AWARDED: Certificate

ENTRANCE REQUIREMENTS: Former Independent duty-level corpsmen are  
preferred.

NUMBER OF STUDENTS ENROLLED: 20

NUMBER OF STUDENTS  
GRADUATED: None to date.

INSTITUTION: University of Alabama at Birmingham  
Medical Center  
School of Community and Allied Health Resources  
1919 Seventh Avenue South  
Birmingham, Alabama 35233

PROGRAM DIRECTORS: James W. Truelove, M.D.  
Acting Assistant Director  
School of Health Services Administration  
University of Alabama

Beulah M. Hathaway, M.D.  
Chief, Anatomic Pathology  
Birmingham Veteran's Administration Hospital  
700 19th Street South  
Birmingham, Alabama 35233

PROGRAM TITLE: Pathology Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The one-year course of study consists of a program of both didactic lectures and a clinical experience. Courses include anatomy, biology, chemistry, medical terminology, photography, histology, and cytology. There are plans to expand the program to two years in the near future, to enable students to receive a B.S. degree.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: Two years of college or the equivalent are preferred.

NUMBER OF STUDENTS  
ENROLLED: 3 (There are plans to expand to 10)

NUMBER OF STUDENTS  
GRADUATED: 1



INSTITUTION: University of Alabama Medical Center  
1919 Seventh Avenue South  
Birmingham, Alabama 35233

PROGRAM DIRECTOR: William Harlan, M.D.  
Associate Dean, Division of Family  
Practice and Ambulatory Medicine

PROGRAM TITLE: Physician's Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The 24-month program is divided into 2 parts--  
didactic and clinical. The didactic portion  
consists of three phases: Introductory Phase  
(5 weeks)- courses include history, philosophy  
ethics of medicine, medical terminology,  
chemistry, medical microbiology, laboratory  
medicine, animal experimentation and surgery,  
and data processing; Core Phase (22 weeks)-  
anatomy, physiology, biochemistry, pharmacology,  
behavioral sciences; Final Phase (6 weeks)-  
patient evaluation and diagnosis, electrocar-  
diography, growth and development, radiology,  
and dentistry.

The 9 month didactic period is followed by  
11 months of required clinical rotations in  
medical outpatient, general surgery, obstetrics  
and gynecology, and pediatrics, and 4 months  
of elective rotations in cardiology, endocrinology,  
gastroenterology, nephrology, neurology,  
rheumatology, dermatology, orthopedics urology,  
and radiology.

DEGREE OR CERTIFICATE  
AWARDED: Certificate

ENTRANCE REQUIREMENTS: Students with 2 years of college, primarily in  
the biological sciences, are preferred; students  
should have previous experience in the health  
field, with at least one year involving extensive  
direct patient care.

NUMBER OF STUDENTS ENROLLED: 12

NUMBER OF STUDENTS  
GRADUATED: None to date

INSTITUTION: University of Alabama  
Birmingham, Alabama

PROGRAM DIRECTOR: Buris Boshell, M.D.  
Diabetes Trust Fund  
2117 8th Avenue South  
Birmingham, Alabama 35233

PROGRAM TITLE: Physician's Assistant, Diabetes

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The training period consists of one year of didactics, and one year of clinical experience in the hospital. Details are available from the institution upon request.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: High School graduates, preferable with a science background.

NUMBER OF STUDENTS ENROLLED: 12

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: University of Alabama at Birmingham  
Medical Center  
School of Health Services Administration  
1919 Seventh Avenue South  
Birmingham, Alabama 35233

PROGRAM DIRECTOR: Margaret K. Kirklin, M.D.

PROGRAM TITLE: Surgeon's Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The two-year program combines studies in all aspects of surgery including pathology, pharmacology, history taking, and physical examinations with an equal amount of time devoted to clinical experience.

DEGREE OR CERTIFICATE AWARDED: A Certificate is awarded.

ENTRANCE REQUIREMENTS: Two years of college, with emphasis in the basic sciences, and an individual evaluation by the admissions committee.

NUMBER OF STUDENTS ENROLLED: 9

NUMBER OF STUDENTS GRADUATED: 2

INSTITUTION: De Anza College  
Foothill Community College District  
21250 Stevens Creek Blvd.  
Cupertino, California 95014

PROGRAM DIRECTORS: Nathan H. Boortz, Ed.D.  
Mrs. Eloise Hansen

PROGRAM TITLE: Pediatric Assisting

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The two-year program is an option of the two-year Medical Assisting Curriculum offered at De Anza College. Pediatric Assisting majors will have courses emphasizing pediatrics. Medical Assisting courses include anatomy and physiology, effective communications, medical terminology, microbiology, first aid, clinical techniques, office management, general psychology, and a number of others. The pediatric portion consists of courses in common childhood diseases and prevention, pediatric test methods and procedures, immunology and microbiology, and externship. At the present, a summer session is required of students in the program in addition to the usual 2-year Medical Assisting program.

DEGREE OR CERTIFICATE AWARDED: A.A. Degree (Associate of Arts)

ENTRANCE REQUIREMENTS: Completion of the Medical Assisting Curriculum and staff recommendation. Applicants to the Medical Assisting Program must meet the regular requirements for entry into De Anza College.

NUMBER OF STUDENTS ENROLLED: Anticipate 10-15 per year

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: Foothill College  
Foothill Community College District  
12345 El Monte Avenue  
Los Altos Hills, California 94022

PROGRAM DIRECTORS: Nathan H. Boortz, Ed.D.  
Mrs. Mary McLanathan

PROGRAM TITLE: Orthopaedic Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: This is a two year program with courses in anatomy and physiology, biochemistry, physical therapy, patient service and emergency room techniques, microbiology, orthopaedic diseases and injuries, general psychology and business and industrial psychology, political science, operating room techniques, prosthetics and orthotics, and several other courses. The program is one of a number of programs offered by the college in health careers. A total of 96 credits are required.

DEGREE OR CERTIFICATE AWARDED: Associate of Arts Degree (A.A.)

ENTRANCE REQUIREMENTS: High School diploma; High School Algebra or Math 101; High School Biology or Biology 10. Former military corpsmen are preferred.

NUMBER OF STUDENTS ENROLLED: 11

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: Charles R. Drew Postgraduate Medical School  
Los Angeles, California

PROGRAM DIRECTOR: M. Alfred Haynes, M.D., Chairman  
Department of Community Medicine

Address correspondence to:  
Director, MEDEX  
1635 East 103rd Street  
Suite 206  
Los Angeles, California 90002

PROGRAM TITLE: MEDEX

STAGE OF DEVELOPMENT: Operational

CURRICULUM: After training at the medical school for three months, the Medex is assigned for a year to a preceptor who is a physician in general practice. For these twelve months, he assists the physician by learning and applying primary care skills under his close supervision.

DEGREE OR CERTIFICATE AWARDED: Certificate indicating completion of the MEDEX training program.

ENTRANCE REQUIREMENTS: Former medical corpsmen trained to a level of independent performance.

NUMBER OF STUDENTS ENROLLED: 20

NUMBER OF STUDENTS GRADUATED: None to date.



INSTITUTION: City College of San Francisco  
50 Phelan Avenue  
San Francisco, California 94102

PROGRAM DIRECTORS: Mr. Jules Fraden  
Dean of Instruction

F. Richard Schneider, M.D.  
Clinical Director

PROGRAM TITLE: Orthopaedic Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program of instruction covers a period of two years and consists of four 15-week semesters. The curriculum includes courses in the following core areas: (1) health service (275 hours), (2) orthopaedic assisting, (850 hours) and (3) general education (375 hours). Included are instruction in patient care and staff relationships, anatomy and physiology, emergency room techniques, cast and traction application, office procedure and care of supplies and equipment, orientation to physical therapy, orientation to prosthetics and orthotics, and operating room techniques.

The two-year course will also include practical experience as orthopaedic assistants in 8 affiliated hospitals and in orthopaedic surgeons' offices.

DEGREE OR CERTIFICATE AWARDED: A.A. degree. Certification will initially be carried out by the accredited Orthopaedic Assisting program until certification guidelines will be developed by a Board of Orthopaedic Assistants.

ENTRANCE REQUIREMENTS: Preferably a high school education or its equivalent. Adults with a 10th or 11th grade reading level and medical corpsmen will also be considered.

NUMBER OF STUDENTS ENROLLED: 1969 25 Students Enrolled  
1970 25 Students Enrolled

NUMBER OF STUDENTS GRADUATED: None to date. 20 students will graduate in June, 1971.

INSTITUTION: University of Colorado  
School of Medicine  
4200 East Ninth Avenue  
Denver, Colorado 80220

PROGRAM DIRECTORS: Henry K. Silver, M.D.  
Chairman, Department of Pediatrics  
  
James A. Hecker, M.D.  
  
John E. Ott, M.D.

PROGRAM TITLE: Child Health Associate Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: Child Health Associates will complete two (or more) years of work in an undergraduate college or university before entering the program; this would be followed by a two-year course of instruction at the University of Colorado Medical Center in Denver and a one-year internship. As undergraduates, students will take a course similar to that taken by premedical students. The curriculum for the first of the two years at the medical center would consist principally of study in the basic sciences, while the second year would be primarily a clinical experience on the pediatric wards, in the nurseries, in the outpatient department, as well as in various community facilities. The clinical year would be followed by an internship of 12 months.

The student would be able to care for almost all the problems of well children as well as most of those with mild disease states (80% of the children seen in a medical practice fall in these categories). Within established limits, the associate would be qualified in diagnose, counsel, and prescribe in both health and sickness.

DEGREE OR CERTIFICATE AWARDED: B.A. degree from the University of Colorado. Certification by the Colorado State Board of Medical Examiners.

University of Colorado  
School of Medicine

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ENTRANCE REQUIREMENTS:

Completion of 60 semester hours or 90 quarter hours in an accredited college or university. Candidates must have successfully completed 8 semester hours each of general chemistry, psychology and biology, and a one-year course in English literature. In special circumstances, substitutes for the above requirements may be made.

NUMBER OF STUDENTS  
ENROLLED:

23

NUMBER OF STUDENTS  
GRADUATED:

None to date

INSTITUTION: Washington Hospital Center  
110 Irving Street, N.W.  
Washington, D.C. 20010

PROGRAM DIRECTORS: James M. Bacos, M.D.  
Chief of Cardiology

PROGRAM TITLE: Cardiovascular Technician Training Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The 18-week program concentrates on giving background and clinical experience in the cardiovascular field. With the training, the trainee should be sufficiently well versed to be able to step into one of several roles in the cardiovascular field, working under the supervision of a knowledgeable physician. He will complement the work of the nurses, work parallel to them, and relieve them of some of their non-nursing tasks.

The course is divided into two phases: Phase I consists of five weeks of formal lectures, laboratories, and demonstrations, with ample time for informal discussions with the instructors. Phase 2 consists of rotations through various clinical areas, arranged to give opportunity for practical application of the didactic material. During this phase, four days per week are spent in the clinical areas and lectures are continued on the remaining day.

DEGREE OR CERTIFICATE AWARDED: Information not available

ENTRANCE REQUIREMENTS: High school graduate and experience in any medical area involving patient care.

NUMBER OF STUDENTS ENROLLED: Information not available

NUMBER OF STUDENTS GRADUATED: Information not available

INSTITUTION: Emory University  
School of Medicine  
Atlanta, Georgia 30322

PROGRAM DIRECTOR: John E. Steinhaus, M.D.  
Professor and Chairman  
Department of Anesthesiology

PROGRAM TITLE: Master Anesthesia Technologist - An  
Experimental Study

STAGE OF DEVELOPMENT: This is an experimental program for  
training technological assistants for  
anesthesiologists.

CURRICULUM: Nine months didactic training devoted  
to applied physiology and electronic  
instrumentation.

Twelve months clinical training with  
emphasis on instrument operation and  
cardio-respiratory support.

DEGREE OR CERTIFICATE  
AWARDED: Master of Health

ENTRANCE REQUIREMENTS: Bachelor's Degree

NUMBER OF STUDENTS  
ENROLLED: 6

NUMBER OF STUDENTS  
GRADUATED: None to date

INSTITUTION: Grady Memorial Hospital  
80 Butler Street, S.E.  
Atlanta, Georgia 30303

PROGRAM DIRECTOR: E. Alan Paulk, M.D.

PROGRAM TITLE: Medical Specialty Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The two year Program is designed to train experts in the practical and technical aspects of patient care in the areas of Medical Intensive, Coronary, Respiratory, and Emergency Care. The first nine months consist entirely of didactic courses in Anatomy and Physiology, chemistry, medical terminology, medical physics, pharmacology, drug math, introduction to the study of disease, ICU techniques, and laboratory techniques. During the remaining fifteen months, students receive clinical experience in Coronary, Respiratory, and Medical Intensive Care Units and Emergency Clinics to supplement classroom lecture on cardiovascular disease, medical electronics, cardiovascular instrumentation, cardiac auscultation, cardiac dysrhythmias, cardiovascular history and physical, respiratory disease, pulmonary function testing, history and physical, respiratory therapy, management of medical emergencies and management of surgical emergencies.

DEGREE OR CERTIFICATE AWARDED: Certification as a Medical Specialty Assistant from Grady Memorial Hospital.

ENTRANCE REQUIREMENTS:

1. High school graduate.
2. At least two years as a corpsman in the armed service or similar experience in the health field.
3. Scholastic Aptitude Test scores.
4. Completed application, three personal references, and high school and any college transcripts.

NUMBER OF STUDENTS ENROLLED: 4

NUMBER OF STUDENTS GRADUATED: 5



INSTITUTION: Georgia State University  
School of Allied Health Sciences  
33 Gilmer Street  
Atlanta, Georgia 30303

PROGRAM DIRECTOR: J. Rhodes Haverty, M.D.  
Dean, School of Allied Health Sciences

PROGRAM TITLE: Pediatric Assistants

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program is 21 months in length  
(7 quarters), and combines an academic  
curriculum with practical experience  
obtained in a clinical setting. Courses  
include biology, English, mathematics,  
microbiology, sociology, allied health  
sciences, pediatrics, pharmacology, and  
history.

DEGREE OR CERTIFICATE  
AWARDED: Associate Degree

ENTRANCE REQUIREMENTS: In addition to meeting the admissions  
requirements of Georgia State University,  
it is advisable the students have completed  
one unit in chemistry and one unit in typing.

NUMBER OF STUDENTS  
ENROLLED: 8

NUMBER OF STUDENTS  
GRADUATED: None to date

INSTITUTION: Albert B. Chandler Medical Center  
College of Allied Health Professions  
University of Kentucky  
Lexington, Kentucky 40506

PROGRAM DIRECTOR: Dr. Joseph Hamburg,  
Dean, College of Allied Health Professions

PROGRAM TITLE: The Clinical Associate

STAGE OF DEVELOPMENT: Planning (Hope to be operational 9/71)

CURRICULUM: The curriculum, which is still in the  
planning stages, is aimed at teaching  
both the "how" and "why" of performing  
duties. The 2-year course will consist  
of one year of classroom work and one  
year in a closely-supervised preceptorship.

DEGREE OR CERTIFICATE  
AWARDED: Associate Degree

ENTRANCE REQUIREMENTS: A high school diploma.

NUMBER OF STUDENTS  
ENROLLED: Anticipate 20

NUMBER OF STUDENTS  
GRADUATED: None to date

INSTITUTION: Western Michigan University  
West Michigan Avenue  
Kalamazoo, Michigan 49001

PROGRAM DIRECTOR: Dr. George Mallinson  
Dean Graduate School

PROGRAM TITLE: Physician's Assistant

STAGE OF DEVELOPMENT: Planning

CURRICULUM: This will be a three-year program of medical study. The students will be trained to fill in the gap in the "medical pyramid" between the physician and the technician.

The program will be open-ended so that students could go on to earn a medical doctor's degree if they choose.

DEGREE OR CERTIFICATE AWARDED: B.A. (The M.A. degree will be awarded to students who receive an additional year of specialty training.)

ENTRANCE REQUIREMENTS: Students will be accepted into the program after completion of two years of college study.

NUMBER OF STUDENTS ENROLLED: None to date.

NUMBER OF STUDENT'S GRADUATED: None to date.

INSTITUTION: Department of Family Practice & Community Health  
University of Minnesota  
Health Sciences Center  
Minneapolis, Minnesota 55455

PROGRAM DIRECTOR: John Verby, M.D.

PROGRAM TITLE: Physician's Associate

STAGE OF DEVELOPMENT: Planning

CURRICULUM: This is a scholarship program whereby third year medical students will be provided an opportunity to associate themselves with selected physicians or groups of physicians in non-metropolitan areas in the state. The students will associate themselves intimately with the preceptors, participating in all aspects of patient care in home, office, and hospital. Two quarters of credit will be given for this work. Students may elect to remain in the physician's associate status for a period of up to five years before re-turning to the medical school.

DEGREE OR CERTIFICATE AWARDED: Two quarters of credit will be earned, to be applied to the medical degree.

ENTRANCE REQUIREMENTS: Students will be selected from the incoming class of the medical school on the basis of application and other indications of genuine desire to eventually practice in a small community. Students in their second year may also be selected.

NUMBER OF STUDENTS ENROLLED: None to date

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: Veterans Administration Hospital  
54th Street and 48th Avenue South  
Minneapolis, Minnesota 55417

PROGRAM DIRECTORS: Clyde E. Blackard, M.D.  
Chief of Urology

Russell Church, R.N.  
Course Director

PROGRAM TITLE: Urological Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The 12-month program encompasses at least 250 hours of formal classroom lectures, demonstrations and quizzes. Emphasis will be placed on: 1. Anatomy and physiology of the genito-urinary tract; 2. Catheterization; 3. Urological instruments; 4. Urological radiographic techniques; 5. Urological procedures; 6. The urological patient.

CERTIFICATE OR DEGREE AWARDED: Certificate

ENTRANCE REQUIREMENTS: 1 1/2 years of experience as a nursing assistant or its equivalent in such paramedical fields as: Laboratory Service, Physicial Medicine and Rehabilitation, or Radiology.

NUMBER OF STUDENTS ENROLLED: Information not available

NUMBER OF STUDENTS GRADUATED: Information not available

INSTITUTION:                   Tranining Center for Physician Assistants  
United States Medical Center  
Springfield, Missouri

PROGRAM DIRECTOR:             Robert L. Brutsche, M.D.  
Medical Director  
Federal Bureau of Prisons  
United States Department of Justice  
Washington, D.C. 20537

PROGRAM TITLE:                Physician Assistant Training Program

STAGE OF DEVELOPMENT:        Operational

CURRICULUM:                   The curriculum is provided in a basic training  
program and in an advanced training program.  
The objectives are to provide the student with  
the necessary background for screening patients,  
the methodology for initiating appropriate  
differential diagnostic procedures, the appre-  
ciation for compliance with guidelines regarding  
the scope of participation, and to provide him  
with cross-training in laboratory, radiology,  
pharmacy, nursing, physical therapy, surgical  
assistance, dental assistance, safety and  
sanitation. Training is provided for state and  
local prisons and non-prison systems when space is  
available. The basic training program includes  
two quarters of lectures (374 hours) and on-the-  
job training (346 hours). The advanced training  
program includes review, on-the-job training, and  
observation.

DEGREE OR CERTIFICATE  
AWARDED:                       A certificate is granted from the Bureau of  
Prisons.

ENTRANCE REQUIREMENTS:       1. Experience in the health field at the  
level attained by military corpsman;  
2. High school diploma or equivalent;  
3. Final acceptance requires a security  
clearance.

NUMBER OF STUDENTS  
ENROLLED:                       8 men enrolled.

NUMBER OF STUDENTS  
GRADUATED:                      4 graduates; 2 assistants from state prisons  
have trained for one quarter.

INSTITUTION: Dartmouth Medical School

PROGRAM DIRECTOR: Nicholas Danforth, M.D.  
Director  
Nugget Arcade, P.O. Box 146  
Hanover, New Hampshire 03755

PROGRAM TITLE: MEDEX

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The training is divided into two phases:  
(1) Three months of university training with emphasis on the transition from military medicine to civilian medicine. Physician preceptors will be among those participating in the university training portion of the program; (2) Twelve months of practical training under the guidance of preceptors.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: Former military corpsmen who have served on independent duty or have received advanced training qualifying them for independent duty, having formal medical training ranging from 640 to 1,900 hours.

NUMBER OF STUDENTS ENROLLED: 22

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: Brooklyn-Cumberland Medical Center and  
Long Island University, Brooklyn Campus  
121 DeKalb Avenue  
Brooklyn, New York 11201

PROGRAM DIRECTOR: Arnold Lewis, M.D.

PROGRAM TITLE: Medical Services Associate Program

STAGE OF DEVELOPMENT: Presently a pilot project with "seed" money  
for the training of classes of 24 students  
for the next three years. The first class of  
24 students started on February 2, 1970.

CURRICULUM: Medical services associates will train for  
two years, year round, to prepare them to  
assist physicians in general practice, and  
in the areas of general internal medicine and  
surgery. The program will include didactic  
courses in the basic concepts of human anatomy,  
physiology, pathology, pharmacology, English,  
mathematics, sociology, psychology, medical  
ethics, and medical terminology. Each parti-  
cipant will be exposed to approximately one added  
year of clinical experience working in the medical  
care areas of the Brooklyn-Cumberland Medical  
Center. They will be taught to take routine  
parts of medical histories, perform physical  
examinations, participate in and assist with  
procedures performed by the physician, assist  
at operations, review the patients' charts for  
routine procedures and spot-check developments  
in the course of the disease process in each  
individual patient.

DEGREE OR CERTIFICATE  
AWARDED: The first students will be granted a joint  
Brooklyn-Cumberland Medical Center/Long Island  
University certificate. Degree granting programs  
at both the A.A.S. and B.S. levels are  
planned.

ENTRANCE REQUIREMENTS: Candidates are recruited predominantly from the  
Fort Greene/Bedford-Stuyvesant area of Brooklyn.  
Both recently discharged medical corpsman and  
high school graduates or the equivalent will be  
selected from those expressing a desire to enter  
the health field and who have exhibited academic  
and personal qualities indicating motivation and



capacity for success. Although academic achievement tests will be given, primary emphasis will be given to a personal interview with evidence of motivation and psychological adaptability stressed.

NUMBER OF STUDENTS  
ENROLLED:

24 students will be enrolled for each of the first three classes.

NUMBER OF STUDENTS  
GRADUATED:

None to date

INSTITUTION: School for Orthoptists and Ophthalmic Assistants  
Box 1, Edward S. Harkness Eye Institute  
Columbia-Presbyterian Medical Center  
635 West 165th Street  
New York, New York 10032

PROGRAM DIRECTOR: Philip Knapp, M.D.

PROGRAM TITLE: Orthoptics and Ophthalmic Assisting

STAGE OF DEVELOPMENT: Operational

CURRICULUM: Training consists of a total of 18 months. A two month basic course is offered by the American Orthoptic Council. This course consists of lectures in such subjects as optics, neurology, and eye anatomy, given in the summer at various universities around the country, currently at the University of Iowa. Sixteen months of lectures and clinical training are given in the Department of Ophthalmology of Columbia-Presbyterian Medical Center.

CERTIFICATE OR DEGREE AWARDED: Certificate from Presbyterian Hospital; certificate awarded by the American Orthoptic Council upon successful passing of written, oral, and practical examination.

ENTRANCE REQUIREMENTS: At least 2 years of college are required; preference is given to college graduates. Applicants must have taken or plan to take the two-month basic course offered by the American Orthoptic Council.

NUMBER OF STUDENTS ENROLLED: 4

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: New York City Borough of Manhattan Community  
College  
City University of New York  
Division of Health Services  
134 West 51st Street  
New York, New York 10020

PROGRAM DIRECTORS: Blanche R. Reid, Ph.D.  
Head, Health Services Division

Professor Franklin Fitz

PROGRAM TITLE: Medical Emergency Technicians

STAGE OF DEVELOPMENT: Operational

CURRICULUM: Students are trained in emergency techniques  
for working on ambulances or in emergency  
departments.  
Curriculum for the first year includes English  
composition, sociology, mathematics, anatomy  
and physiology, developmental psychology,  
general biology, and medical emergency  
techniques. Second year curriculum includes  
social problems, microbiology, speech, con-  
versational Spanish, music or art, and emergency  
medical techniques. Students have spent time  
alternating between the intensive care unit  
and emergency room at Poly Clinic and  
Roosevelt Hospital. They also spend some time  
in the communications section at the Police  
Department.

DEGREE OR CERTIFICATE  
AWARDED: A.A.S. Degree (Associate in Applied Sciences)

ENTRANCE REQUIREMENTS: High School diploma or equivalent; at least  
one year of high school science or ex-  
perience as a military corpsman is preferred.

NUMBER OF STUDENTS  
ENROLLED: 48

NUMBER OF STUDENTS  
GRADUATED: 23

INSTITUTION: Marine Physician's Assistant Training School  
U.S. Public Health Service Hospital  
Staten Island, New York 10304

PROGRAM DIRECTORS: Mr. James Hensley  
Director of Training

Mr. Ronald Haberberger  
Director, Clinical Education

PROGRAM TITLE: Marine Physician Assistant Training School

STAGE OF DEVELOPMENT: Operational

CURRICULUM: Students are trained to meet medical emergencies, both medical and supportive, with knowledge and independent judgement. The program consists of about 660 instructional hours and 470 hours of practical experiences. The nine-month training includes basic instruction to prepare the physician assistant in the absence of the physician aboard ship, to meet medical emergencies with knowledge and independent judgement. The program includes courses in anatomy and physiology, environmental health and preventive medicine, medical and surgical conditions, patient care, pharmacology, clinical laboratory, first aid, and practical experience in surgical techniques.

DEGREE OR CERTIFICATE AWARDED: Each student receives a certificate issued by the Public Health Service and a license from the U.S. Coast Guard, to work on Merchant Marine ships.

ENTRANCE REQUIREMENTS: High school diploma or equivalent; former military corpsmen preferred.

NUMBER OF STUDENTS ENROLLED: 39

NUMBER OF STUDENTS GRADUATED: 112

INSTITUTION: U.S. Public Health Service Hospital  
Staten Island, New York 10304

PROGRAM DIRECTOR: Mr. James Hensley  
Director of Training

PROGRAM TITLE: Orthopedic Assistant

STAGE OF DEVELOPMENT: Will be Operational in September, 1971.

CURRICULUM: The general education core consists of courses in English, mathematics, hygiene, social sciences, physical education, and electives. The health service core includes biology, advanced safety service, and techniques of patient care. The orthopedic assistant core consists of emergency room techniques, introduction to physical therapy, cast and traction application, orthopedic diseases and injuries, office procedures and care of supplies and equipment, operating room techniques, and principles of prosthetics and orthotics. The degree requires a total of 66 credits. The two-year course will also include practical experience as assistant to orthopedic surgeons in several affiliated hospitals.

DEGREE OR CERTIFICATE AWARDED: A.A.S. Degree from community college

ENTRANCE REQUIREMENTS: A high school diploma or its equivalent is required. The program is directly aimed at recruiting returning veterans who have had some paramedical experience in the military services and who are not being absorbed by civilian facilities. In addition, underemployed individuals from the community will be considered.

NUMBER OF STUDENTS ENROLLED: 50 will be in first class

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTIONS: Duke University Medical Center  
Department of Pathology  
and  
Veteran's Administration Hospital  
Department of Pathology  
Durham, North Carolina 27706

PROGRAM DIRECTOR: Kenneth A. Broda  
Teaching Supervisor

PROGRAM TITLE: Pathology Assistant Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program length varies from one to two years, depending on the student's past education, experience and progress. The first six months are devoted to instructional classroom and laboratory work; the remainder of the course to practical experience in the Department of Pathology and various allied departments. Classes begin in June of each year. Lectures and laboratories cover such subjects as human anatomy and physiology, histology, bacteriology, pathology, radiologic technique, and photography. The practical rotation periods are in the autopsy suite, histology, bacteriology and photography.

DEGREE OR CERTIFICATE AWARDED: Certificate from Duke University and the Veteran's Administration Hospital

ENTRANCE REQUIREMENTS: Selection of students will be made from the following:

1. Graduate (or equivalent) of a four-year accredited college.
2. Graduate (or equivalent) of a junior college with academic studies.
3. High School graduate with at least two years of experience as a hospital corpsman. An aptitude test is required of the prospective student.

NUMBER OF STUDENTS ENROLLED: 4

NUMBER OF STUDENTS GRADUATED: 3

INSTITUTION: Duke University School of Medicine  
P.O. Box 2914 CHS  
Durham, North Carolina 27706

PROGRAM DIRECTOR: D. Robert Howard, M.D.  
Department of Community Health Sciences

PROGRAM TITLE: Physician's Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The educational curriculum covers a period of 24 months. The preclinical portion covers an academic period of 36 weeks and is divided into three phases rather than two semesters. The first and third phases are each six weeks in duration and the second phase, twenty-four weeks. The first phase includes courses in the history, philosophy, and ethics of medicine, basic clinical laboratory, Medical terminology, chemistry, animal experimentation, and community health. The second phase includes microbiology, anatomy, physiology, biology, pharmacology, physical evaluation, diagnostic procedures, animal surgery, and clinical psychiatry. The third phase includes electrocardiology, radiology, data processing and patient evaluation.

The clinical curriculum of fifteen months consists of nine months of required rotations, and six months of elective rotations. It is during this aspect of the training program that the student is expected to develop expertise in the application of his preclinical learning. Areas covered are general medicine, pediatrics, surgery, internal medicine, allergy and respiratory disease, cardiology, dermatology, endocrinology, gastroenterology, hematology, hyperbaric medicine, industrial medicine, nephrology, neurology, radiology, neurosurgery, ophthalmology, orthopaedic surgery, otolaryngology, plastic surgery, and urology.

## Duke University School of Medicine

DEGREE OR CERTIFICATE  
AWARDED:

A "Physician's Assistant" Certificate for completion of the 2-year program; a B.S. degree plus certification after 4 years of training.

ENTRANCE REQUIREMENTS:

1. A high school diploma or its equivalent
2. Experience of at least 2 years in the health field (such as corpsman, LPN).

NUMBER OF STUDENTS  
ENROLLED:

77

NUMBER OF STUDENTS  
GRADUATED:

36



INSTITUTION: Bowman Gray School of Medicine  
Wake Forest University  
Division of Allied Health Programs  
Winston-Salem, North Carolina 27103

PROGRAM DIRECTORS: Leland E. Powers, M.D.  
Director, Division of Allied Health Programs  
  
Katherine H. Anderson, M.D.

PROGRAM TITLE: Physician's Assistant Training Program  
(includes training in specialty areas)

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The 24-month program is divided into  
three phases: Phase I--A basic course in  
clinical and bioscience principles, required  
of all students (6 months).  
Phase II - intensive training in the specialty  
tasks of the student's choice (6 months).  
Phase III - supervised practice in the hospital,  
clinics, and in private practitioners'  
offices (12 months).

DEGREE OR CERTIFICATE  
AWARDED: For students with less than 3 years of college  
credits, a certificate will be issued. For  
students with 3 years of college upon entering  
the program, a B.S. degree is awarded.

ENTRANCE REQUIREMENTS: High school and 2 years of college credit,  
or training and 3 years of experience as  
a medical corpsman. Minimum S.A.T.  
score of 800.

NUMBER OF STUDENTS  
ENROLLED: 20

NUMBER OF STUDENTS  
GRADUATED: None to date.

INSTITUTION: University of North Dakota  
School of Medicine  
Grand Forks, North Dakota 58201

PROGRAM DIRECTOR: Gerald Bassett, M.D.  
Professor, Department of Community Medicine

PROGRAM TITLE: MEDEX

STAGE OF DEVELOPMENT: Operational

CURRICULUM: After training at the medical school for three months, the Medex is assigned for a year to a preceptor who is a physician in general practice. For these twelve months, he assists the physician by learning and applying primary care skills under his close supervision.

DEGREE OR CERTIFICATE AWARDED: Certificate indicating completion of the MEDEX training program.

ENTRANCE REQUIREMENTS: Former medical corpsmen trained to a level of independent performance.

NUMBER OF STUDENTS ENROLLED: 18

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: Cincinnati Technical Institute  
3520 Central Parkway  
Cincinnati, Ohio 45223

in conjunction with:  
Good Samaritan Hospital  
Deaconess Hospital  
St. Francis Hospital

PROGRAM DIRECTOR: Mrs. Nancy Walters, Director  
Department of Health Technologies

PROGRAM TITLE: Surgical Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The two-year course includes five 10-week terms per year. Students alternate terms between formal didactic courses at the Cincinnati Technical Institute and clinical experiences in the cooperating hospitals. The first didactic term includes courses in chemistry, anatomy and physiology, laboratory techniques, medical profession, and surgery. The second didactic term includes courses in communications, mathematics, chemistry, anatomy and physiology, and surgery. The third didactic term includes communications, mathematics, anatomy and physiology, pharmacology and microbiology. The fourth includes technical writing, economics, sociology, pathology, and surgical assisting; and the last didactic term includes speaking techniques, human relations, physics, emergency procedures, pathology, and a surgical seminar. The clinical experiences are varied in order to give students a variety of experiences.

DEGREE OR CERTIFICATE AWARDED: A.A. degree

ENTRANCE REQUIREMENTS: Students must be high school graduates, and have satisfactory recommendations, acceptable scores on entrance examinations, and physical qualifications necessary for performance of surgical duties. A personal interview is also required.

NUMBER OF STUDENTS ENROLLED: Approximately 24

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: University of Cincinnati Medical Center  
Division of Urology  
3231 Burnet Avenue  
Cincinnati, Ohio 45229

PROGRAM DIRECTOR: Arthur T. Evans, M.D.  
Professor and Director  
Division of Urology

PROGRAM TITLE: Urologic Physician's Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The first nine months of this 2-year program are devoted primarily to didactic instruction. During three 12-week quarters, students take the following clinically-oriented courses: biochemistry, anatomy, physiology, microbiology, pathology, pharmacology, patient evaluation and diagnosis, urological evaluation and diagnosis, urology, and the history and ethics of medicine.

The last 15 months are devoted to clinical instruction in urology and closely related fields. Students spend time in the endoscopic suite, the urologic in-patient and out-patient services, and surgery, and may elect rotations on certain related services or in a private urologic practice per arrangement with the director.

DEGREE OR CERTIFICATE AWARDED: Urologic Physician's Assistant Certificate

ENTRANCE REQUIREMENTS:
 

1. A high school diploma
2. At least 3 years of medical experience or 2 years of college
3. Submission of scores on the Scholastic Aptitude Test
4. Submission of all academic records at the high school level and beyond
5. Two letters of recommendation from medical supervisors or academic instructors

Exceptions may be made in unusual cases.

NUMBER OF STUDENTS ENROLLED: 13

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: Cleveland Clinic Hospital  
2050 East 93rd Street  
Cleveland, Ohio 44106

PROGRAM DIRECTOR: Mr. James E. Zucker  
Assistant Administrator

PROGRAM TITLE: The Corpsman

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The one year program combines both didactic studies and clinical experience, primarily in the intensive care areas, with the ultimate goal of providing an individual with technical and patient care skills which supplement those of physicians, nurses, and various technicians.

Courses to be taken at Cuyahoga Community College include Principles of Medical Science, and Microbiology. Instruction will also be given in inhalation therapy, chest physiotherapy, radiology, electrocardiography, and medical instrumentation.

The program is hospital and institution-oriented.

DEGREE OR CERTIFICATE AWARDED: The Cleveland Clinic Educational Foundation and the Cuyahoga Community College will award a joint certificate to each corpsman.

ENTRANCE REQUIREMENTS: Medical corps experience in the military service or three years of hospital experience, high school graduation or its equivalent, and satisfactory performance on the ACT (American College Test).

NUMBER OF STUDENTS ENROLLED: 10-15 in each class--two classes per year, beginning in January and July.

NUMBER OF STUDENTS GRADUATED: Information not available.

INSTITUTION: The Ohio State University  
College of Medicine  
School of Allied Medical Professions  
410 West 10th Avenue  
Columbus, Ohio 43210

PROGRAM DIRECTOR: James P. Dearing, B.S.  
Associate Director

PROGRAM TITLE: Circulation Technology

STATE OF DEVELOPMENT: Operational

CURRICULUM: The program involves four years in time. The first two years are on the preprofessional level completing basic University requirements for a baccalaureate degree and certain prerequisite courses for the program. The last two years are in the professional division completing specific courses in Circulation Technology relating to the physiology, anatomy, pathology, and engineering aspects of hemodialysis, heart/lung bypass, research and medical instrumentation. During the fourth, or senior year, the students participate in the clinical open/heart and hemodialysis programs and also critique and design research projects for the advancement of the technology.

DEGREE OR CERTIFICATE AWARDED: Bachelor of Science in Allied Health Professions with a major in Circulation Technology.

ENTRANCE REQUIREMENTS:

1. High School degree or equivalent
2. Two years preprofessional education at an accredited college or university including certain prerequisite courses
3. Application including personal interview

NUMBER STUDENTS INVOLVED: 12

NUMBER STUDENTS GRADUATED: None to date.  
First class of six graduates to graduate in June, 1971.

INSTITUTION: Cuyahoga Community College  
7300 York Road  
Parma, Ohio 44130

PROGRAM DIRECTOR: Jim Burnette  
Assistant Director of Technical Education

PROGRAM TITLE: Surgical Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: This is a two year program. Courses include English, Biology, Health Technology, Medical Assisting Technology, Surgical Assisting, Social Sciences, and Humanities. Surgical Assisting courses involve both lecture and clinical experience.

DEGREE OR CERTIFICATE AWARDED: Associate in Science Degree

ENTRANCE REQUIREMENTS: High school graduates may apply. Persons without a high-school diploma may apply and demonstrate aptitude for college-level instruction by completing the GED high school equivalency examination which is administered by the college.

NUMBER OF STUDENTS ENROLLED: 35

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: University of Oklahoma School of Medicine  
Department of Community Health  
800 Northeast 13th Street  
Oklahoma City, Oklahoma 73104

PROGRAM DIRECTOR: Dr. Tom Lynn, Chairman  
Department of Community Health

PROGRAM TITLE: Physician's Assistant

STAGE OF DEVELOPMENT: Planning

CURRICULUM: This is to be a one-year program. Students would spend 6 months in didactic training at the university and 6 months with a physician preceptor in a rural area.

DEGREE OR CERTIFICATE AWARDED: None

ENTRANCE REQUIREMENTS: Students must have past experience as independent duty corpsmen in the armed forces.

NUMBER OF STUDENTS ENROLLED: None to date (estimate 6-12 per class).

NUMBER OF STUDENTS GRADUATED: None to date.



INSTITUTION: University of Oklahoma School of Medicine  
Department of Community Health  
800 Northeast 13th Street  
Oklahoma City, Oklahoma 73104

PROGRAM DIRECTOR: Dr. Tom Lynn, Chairman  
Department of Community Health

PROGRAM TITLE: Physician's Associate

STAGE OF DEVELOPMENT: Operational

CURRICULUM: This is a 2-year program. Students spend  
ten months studying at the medical center and  
14 months in clinical experiences at the  
Veteran's Administration Hospital.

DEGREE OR CERTIFICATE AWARDED: Bachelor of Health Degree

ENTRANCE REQUIREMENTS: Students must have at least 60 hours of  
college credits upon entering and at least  
two years of experience in direct patient  
contact.

NUMBER OF STUDENTS ENROLLED: 7

NUMBER OF STUDENTS GRADUATED: None to date.

- INSTITUTION: Hahnemann Medical College and Hospital  
230 North Broad Street  
Philadelphia, Pennsylvania 19102
- PROGRAM DIRECTORS: Myra Levick, M.Ed., A.T.R.  
Paul Jay Fink, M.D.
- PROGRAM TITLE: Graduate Psychiatric Art Therapists
- STAGE OF DEVELOPMENT: This program is in its fourth year.
- CURRICULUM: This program consists of 2 parts. The first is an 11 month internship, which is based on a 40 hour week, and two 5 1/2 month clinical rotations. The week is divided into approximately 15 hours in didactic lectures, 18 hours clinical experience, 1 hour individual supervision with a psychiatrist on the staff, 1 hour individual supervision with an art therapist on the staff, and 1 hour a week small group supervision. The material covered in the courses is normal and abnormal psychology, psycho-analytic theory, art therapy theory, group dynamics, and an overview of other psychiatric theories. The clinical rotation provides supervised experience with emotionally disturbed and brain-damaged children for 5 1/2 months, and 5 1/2 months with adolescent and adult mental patients in partial and full-time hospital settings.
- DEGREE OR CERTIFICATE AWARDED: At the end of the 11 month internship, the students receive a certificate from the Department of Mental Health Sciences stating that they have fulfilled all the requirements satisfactorily for this period. They then have the option to take a qualifying exam (comparable to graduate comprehensive examination) and, if they pass, may enroll in the graduate school and proceed to write their theses for an M.S. Degree in Mental Health awarded by the Medical College. The M.S. Degree was accredited in 1969. To date, 27 students took the qualifying exam and passed it, 16 are currently working on their M.S. thesis.
- ENTRANCE REQUIREMENTS:
1. The student must be a graduate of an accredited college with a Bachelor of Fine Arts, Bachelor in Art Education, or its equivalent.
  2. Completion of an application form.
  3. Three character and personal evaluation forms.
  4. College transcripts.
  5. Scores from the Miller Analogies Tests.

NUMBER OF STUDENTS ENROLLED: 1st class, 6 students - September 1967  
2nd class, 9 students - September 1968  
3rd class, 20 students - September 1969  
4th class, 20 students - September 1970  
5th class, 20 students - September 1971  
20 students is the maximum number they plan to accept in future years.

NUMBER OF STUDENTS GRADUATED: Of the 35 students enrolled in the first three years, 2 dropped out of the program 33 received their certificates, 29 are currently employed as art therapists, and 3 students are expected to receive their Masters Degree in 1971.

INSTITUTION: Hahnemann Medical College and Hospital  
Department of Mental Health Sciences  
314 North Broad Street  
Philadelphia, Pennsylvania 19102

PROGRAM DIRECTORS: Hugh Rosen, ACSW  
Paul Jay Fink, M.D.

PROGRAM TITLE: Mental Health Technology

STAGE OF DEVELOPMENT: Fully operational

CURRICULUM: Two-year program. The junior year is comprised of didactic seminar-type courses exclusively. The students are taught developmental psychology, psychopathology, group and family process and the role of culture in mental illness and mental health. They also become acquainted with the structures and functions of mental health organizations with strong emphasis on community mental health centers. The senior year requires 40 hours weekly for an 11-month period of a supervised clinical training experience. The focus of the training is the acquisition of skills in a specialty of the student's choice. Included in the 40-hour week of the senior year are 5 ongoing seminars covering activities and subject areas related to the concomitant field training. Readings and discussions flowing from these seminars are intended to broaden further the student's knowledge in the bahaviorial sciences, family theory, social and community resources and the use of drugs.

DEGREE OR CERTIFICATE AWARDED: Bachelor of Science Degree

ENTRANCE REQUIREMENTS:

1. Minimum of 60 hours (semester) of college credit.
2. Completion of application.
3. Character references and personal interview.
4. College transcripts.

NUMBER OF STUDENTS ENROLLED: 25 accepted each September for junior class

NUMBER OF STUDENTS GRADUATED: None (will graduate 5 students in June, 1971)

INSTITUTION: University of Texas  
Medical Branch  
Galveston, Texas 77550

PROGRAM DIRECTOR: Robert W. Ewer, M.D.  
Department of Medicine

PROGRAM TITLE: Clinical Associate  
(with subtitles indicating more specific areas of training, for example: Clinical Associate in Pediatrics).

STAGE OF DEVELOPMENT: Operational with respect to the "core" curriculum.

CURRICULUM: The duration of the training program is four years except when transfer of credit and waiver by examination is acceptable. A "core curriculum" common to several Allied Health Professions has been established. The student is given a choice of allied health fields upon completion of certain liberal arts and medically oriented basic science courses for which full academic credit is given. The student is trained to assist the physician in the basic aspects of medical care: (1) To interview, (2) To examine, (3) To test, (4) To treat, (5) And to maintain continuity of communication and observation in its most broad sense. Purely technical skills are subservient, and vary with the field of special interest and endeavor.

DEGREE OR CERTIFICATE AWARDED: A Bachelor of Science Degree upon satisfactory completion of both "core" and clinical training.

ENTRANCE REQUIREMENTS: An excellent high school record, transferable credits, waiver by examination for credit for previous experience that is related to required courses, and an aptitude for ethical and compatible human relationships.

University of Texas  
Medical Branch

NUMBER OF STUDENTS  
ENROLLED:

Twenty in the "core" curriculum; none in the  
Clinical Associate Program.  
Enrollment capacity in the Clinical Associate  
program is four students annually until an  
adequate faculty is available.

NUMBER OF STUDENTS  
GRADUATED:

None to date

INSTITUTION: Eye Institute  
 Department of Ophthalmology  
 Baylor College of Medicine  
 Texas Medical Center  
 Houston, Texas 77025

PROGRAM DIRECTOR: Louis J. Girard, M.D.  
 Chairman, Ophthalmic Training Programs

PROGRAM TITLE: Basic Science Course for Ophthalmic Assistants

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The course lasts 8 weeks with a twelve-month period of preceptorship recommended upon completion. The first 5 weeks are devoted to lectures in basic sciences as related to ophthalmology. The remaining 3 weeks are composed of demonstrations and workshops in various clinical procedures. During the period of preceptorship, the student works under supervision, preferably in a hospital clinic, in order to acquire proficiency in various clinical tests.

DEGREE OR CERTIFICATE AWARDED: Information not available.

ENTRANCE REQUIREMENTS: Successful completion of high school with typing ability is required. However, two years of college is recommended. Applicant must be sponsored by an ophthalmologist.

NUMBER OF STUDENTS ENROLLED: Information not available.

NUMBER OF STUDENTS GRADUATED: 46

INSTITUTION: University of Washington  
Department of Preventive Medicine  
School of Medicine  
Seattle, Washington 98105

PROGRAM DIRECTOR: Richard A. Smith, M.D.  
Associate Professor

PROGRAM TITLE: MEDEX

STAGE OF DEVELOPMENT: Operational

CURRICULUM: After training at the medical school for three months, the Medex is assigned for a year to a preceptor who is a physician in general practice. For these twelve months, he assists the physician by learning and applying primary care skills under his close supervision.

DECREE OR CERTIFICATE AWARDED: Certificate indicating completion of the MEDEX training program.

ENTRANCE REQUIREMENTS: Former medical corpsmen trained to a level of independent performance.

NUMBER OF STUDENTS ENROLLED: Approximately 25 per class. Three classes per year.

NUMBER OF STUDENTS GRADUATED: 14



INSTITUTION: Alderson-Broaddus College  
College Hill  
Philippi, West Virginia 26416

PROGRAM DIRECTOR: Hu C. Myers, M.D.  
Myers Clinic  
Philippi, West Virginia 26416

PROGRAM TITLE: Physician's Assistant

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The curriculum covers a period of 4 years and consists of training in liberal studies, (includes English, speech, and social sciences) medical science, and clinical rotations. Required courses total 125 to 129 semester hours. Students are encouraged to enroll in elective courses to enrich their total educational experience.

The clinical experience begins in the third quarter of the first year. It accelerates with each quarter through the tenth. From the eleventh through the fourteenth, it is a full-time clinical clerkship off campus. The last quarter is 1/3 liberal studies, 1/3 clinical clerkship, and 1/3 senior seminar.

Required clinical rotations are medicine, surgery, intensive care, outpatient clinic, and doctor's office. Electives can be in pediatrics, urology, orthopedics, ear, nose, and throat, clinical research, obstetrics, psyshiatry, community health and preventive medicine.

DEGREE OR CERTIFICATE AWARDED: B.S. in Medical Science

ENTRANCE REQUIREMENTS: High school diploma, demonstration of good scholarship, high character, and strong motivation; satisfactory test data on S.A.T. or A.C.T., at least 10 units in college preparatory subjects.

NUMBER OF STUDENTS ENROLLED: 95

NUMBER OF STUDENTS GRADUATED: None to date

INSTITUTION: Marshfield Clinic  
Marshfield, Wisconsin 54449

PROGRAM DIRECTOR: Francis N. Lohrenz, M.D.  
Chairman, Physician Assistant Committee

PROGRAM TITLE: The Physician Assistant: Oncology (study of tumors)  
Gastroenterology  
Pediatric  
Ophthalmologic  
Neurosurgical  
General Practitioner  
Orthopedic

STAGE OF DEVELOPMENT: Developmental

CURRICULUM: Oncology--Learns the administration and calculation of intravenous doses and evaluation of toxicity of chemotherapeutic drugs in order to care for and supervise courses of specific chemotherapeutic drugs as directed by the physician, and to check patient who are seen frequently during course of chemotherapy; discharge summaries.

Gastroenterology--Learns how to inject BSP dye, perform secretin tests and esophagoscopies, and small bowel biopsies, in order to be able to perform all of these procedures at the direction of the physician.

Pediatric--Learns to perform physical examinations of newborn, to instruct mothers who breast feed babies, their adjustment to feedings, and early postnatal care. Projected duties include house-call visits three weeks after discharge.

Ophthalmologic--Learns about refraction, visual fields, tests for glaucoma, and how to assist with cataract surgery in order to be able to perform refractions, visual field evaluations, tonometry, and to act as assistant during cataract surgery.

Neurosurgical--Scrubs with neurosurgeon, prepares patients for diagnostic procedures, helps with spinal taps, does discharge summaries, makes rounds.

## Marshfield Clinic

General Surgical--First assistant in surgery, 4-6 hours a day, dressings, makes rounds, attends conferences.

Orthopedic--Puts on casts, screens patients for the orthopedic surgeons, does discharge summaries, scrubs and acts as assistant during orthopedic surgery.

In general, these programs involve about three months of on-the-job training before the trainee becomes fully functional. At the conclusion of the training period, the trainees are retained by the clinic as members of the staff.

DEGREE OR CERTIFICATE  
AWARDED:

None

ENTRANCE REQUIREMENTS:

Students with some sort of medical training are preferred. These include former medical corpsman, registered nurses, and those with experience in health research laboratories.

NUMBER OF STUDENTS  
ENROLLED:

One in each of the courses.

NUMBER OF STUDENTS  
GRADUATED:

One from each course.

PROGRAMS FOR EXTENDING NURSING ROLES

INSTITUTION: University of Arizona  
College of Medicine  
Department of Community Medicine  
El Rio Santa Cruz Neighborhood Health  
Center  
332 South Freeway  
Tucson, Arizona 85705

PROGRAM DIRECTORS: Project Director:  
Herbert K. Abrams, M.D.

Medical Director:  
Peter D. Mott, M.D.

Nursing Director and Program Chairman:  
Emily Bale, R.N.

PROGRAM TITLE: Family Nurse Practitioner

STAGE OF DEVELOPMENT: Operational since spring, 1970, for  
staffing of the Neighborhood Health  
Center only.

CURRICULUM: A 12-month program interweaving class-  
room and clinical experience with on-job-  
training in (1) Pediatrics, (2) Adult  
Medicine, (3) Obstetrics, (4) Advanced  
Social Work (5) Mental Health For Families.

The course aims to train registered nurses  
to be capable of any number of the follow-  
ing roles which she may later elect:

(1) well-child care, including history-  
taking, physical examination, initiation of  
immunizations, laboratory and screening  
techniques, counseling management of  
common illnesses and follow-up of  
children in the home or office;

University of Arizona  
Family Nurse Practitioner

(2) the same array of skills in Adult Medicine, as well as the management of certain chronic diseases; (3) pre-natal, post-partum care and family planning, including history-taking, physical examinations, screening procedures and counseling; (4) a combination of these roles.

DEGREE OR CERTIFICATE  
AWARDED:

Pending

ENTRANCE REQUIREMENTS:

License to practice as a registered nurse. Public Health Nursing experience desirable. Employment in the Neighborhood Health Center a requirement in 1970-71.

NUMBER OF STUDENTS  
ENROLLED:

7

NUMBER OF STUDENTS  
GRADUATED:

0

INSTITUTION: University of California  
School of Public Health, Earl Warren Hall  
Berkeley, California 94720

University of California  
School of Medicine, Davis;  
State of California, Department of Public Health;  
and Highland Hospital, Oakland.

PROGRAM DIRECTORS: Jean G. French  
Project Director

Constance E. Roth  
Project Coordinator  
Division of Public Health Nursing

PROGRAM TITLE: Family Health Practitioner

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The object of this program is not to train nurse technicians, but to present a well-rounded educational program, providing the public health nurse with sufficient knowledge and skills so that she is capable of using sound judgment, does not need constant supervision and can, therefore, assume a more independent role. During the first 12 months of the program, students will receive background knowledge and skills in community medicine, physical diagnosis, and clinical management of all age groups through lectures, seminars, clinical demonstration, and supervised clinical practice in primary care settings. The final six months of the program will be a rotating clinical field experience in appropriate primary care units selected in accordance with their readiness to utilize the nurse practitioner and to provide a meaningful experience for the student.

DEGREE OR CERTIFICATE AWARDED: MPH degree

University of California  
School of Public Health, Earl Warren Hall

## ENTRANCE REQUIREMENTS:

Applicant must be a qualified public health nurse with a baccalaureate degree and a minimum of two years experience in the area of community health. The nature of the experience should be such that it provides the opportunity to apply public health nursing skills, assume responsibility, and take independent action. References from employers must show evidence the nurse has demonstrated certain abilities and is secure and innovative, comfortable with responsibility, capable of independent decision making, has an inquiring mind and interest in clinical medicine, and is committed to giving high quality care. Academic qualifications should reflect a minimum grade point average of 3.0. Special attention is given to previous academic performance in clinical and biological sciences.

NUMBER OF STUDENTS  
ENROLLED:

6 (Now classes of 8 or more to be admitted annually)

NUMBER OF STUDENTS  
GRADUATED:

None to date.



## INSTITUTION:

Loma Linda University  
School of Nursing  
Loma Linda, California 92354

## PROGRAM DIRECTORS:

Ruth M. White, R.N., M.S., M.P.H.,  
Nursing Instructor

## Medical Consultants:

Department of Pediatrics  
Richard L. Tompkins, M.D.  
Naomi K. Pitman, M.D.

## PROGRAM TITLE:

Pediatric Nurse Associate

## STAGE OF DEVELOPMENT:

The project proposal is being written. The first level of instruction started Fall 1970. (Second and third parts of sequence will be offered after the project proposal has been approved and the program reviewed by pediatric and nursing practice organizations.)

## CURRICULUM:

This program will encompass nine units. The initial course is three units and involves laboratory practice as well as theory. Arrangements have been made with the neighboring health departments for nurses on their staff to obtain the laboratory practice in the on-the-job child health conferences. The purpose is twofold: To prepare nurses for the specific role of Pediatric Nurse Associate within an ambulatory care setting; and, secondly, to foster better utilization of nurses in the delivery of health services in the community. Instruction is to build competence in the physical and developmental assessment of the child, including his history and recording, counseling of mothers and teaching of parents, management of minor illnesses and follow-up of the children in the home and community.

Loma Linda University  
Pediatric Nurse Associate

## CURRICULUM (cont'd.):

Students are assisted with role reorientation, the process of collaborating and in increasing decision-making competence. Affects of culture, poverty and environmental factors are incorporated.

DEGREE OR CERTIFICATE  
AWARDED:

Certificate at completion of nine units.

## ENTRANCE REQUIREMENTS:

Students may take first level in the senior year of the baccalaureate program in nursing.

Nurses with a baccalaureate degree, including preparation in Public Health Nursing, may register for the course. They must have a license to practice in the state of California.

References and personal interview determine the students' personal qualifications.

NUMBER OF STUDENTS  
ENROLLED:

14 in the first level.

NUMBER OF STUDENTS  
GRADUATED:

None to date.

INSTITUTION: Harbor General Hospital  
UCLA School of Medicine  
1000 W. Carson Street  
Torrence, California 90509

PROGRAM DIRECTOR: Joseph W. St. Geme, Jr., M.D.  
Professor of Pediatrics  
UCLA School of Medicine and  
Chief of Pediatrics  
Harbor General Hospital

PROGRAM TITLE: Nursing Pediatric Program

STAGE OF DEVELOPMENT: No longer operational

CURRICULUM: The program is constructed to prepare nurse to function as a vital cog in child health care team, in close working relationship with and under the supervision of the pediatrician. The length of the program is 12 months.

1. Basic and clinical pediatric science: 4 months. Didactic lectures and seminars in the basic sciences, as they relate to child health, in normal growth and development, common childhood illnesses and problems, mental health and parental-child relationships. Intensive instruction in history-taking and physical science material.
2. Clinical experience: 8 months. Will include participation in daily activity of physician teams in normal neonatal unit (1 month), regular ward-service (1 month), acute care clinic (3 months), and specialty clinics (3 months), emphasizing here well-child care, cardiology, neurology and learning disorders, dermatology. Will also utilize community clinical resources, such as public health well-child clinics and group practice settings.

DEGREE OR CERTIFICATE AWARDED: Certificate stating that nurses have completed the 12 month program in satisfactory fashion.

ENTRANCE REQUIREMENTS: Information not available.

NUMBER OF STUDENTS ENROLLED: Information not available.

NUMBER OF STUDENTS GRADUATED: Information not available.

INSTITUTION: University of Colorado  
 School of Nursing  
 4200 East Ninth Avenue  
 Denver, Colorado 80220

PROGRAM DIRECTOR: Elda R. Popiel, R.N.  
 Professor, School of Nursing

PROGRAM TITLE: Pediatric Nurse Practitioner

STAGE OF DEVELOPMENT: Fully Operational

CURRICULUM: The intensive sixteen-week Pediatric Nurse Practitioner Program provides an opportunity for nurses to expand their role in providing health care for children. The focus of study is the well child in the family, school, and community settings. Academic and clinical study areas include University of Colorado Medical Center and selected health care facilities in the community of Denver. The course titles of the areas of study are as follows:

1. Evaluation of Child Health (8 weeks)--Emphasis is on developing the nurse's skills in taking the health history, performing physical examinations, analyzing health problems, and in health counseling. Classroom work and practice in community child care centers are offered concurrently;
2. The Nurse's Role in Community Child Health (8 weeks)--The focus of this course is on nursing management of common physical, psychosocial, and developmental problems of childhood with continued development of the nurse's evaluation and counseling skills. Practice in community child care settings continues. The nurse studies patterns of independent nursing practice which effect changes in health care systems.

DEGREE OR CERTIFICATE  
AWARDED:

Certificate stating they have satisfactorily  
completed the program.

ENTRANCE REQUIREMENTS:

Graduation from a National League of Nurses  
accredited baccalaureate program, employment  
in a setting concerned with health of children  
and their families in the community, and  
availability for the entire educational program.

NUMBER OF STUDENTS  
ENROLLED:

10

NUMBER OF STUDENTS  
GRADUATED:

70

INSTITUTION: University of Colorado  
4200 E. 9th Avenue, P.O. 2418  
Denver, Colorado 80220

PROGRAM DIRECTORS: Henry K. Silver, M.D.  
Nancy Nelson, M.D.  
Mrs. Elda Popeil, R.N.

PROGRAM TITLE: School Nurse Practitioner Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The one-year program is conducted in two phases. The first phase is conducted at the University of Colorado Medical Center in Denver, where each nurse receives approximately four months of intensive theory and practice in child care and school health. This phase is a clinically-oriented educational program and includes evaluation and management of the well child, identification of various school health problems including care of emergency situations. The second phase of the program extends over an eight month period during which time the nurse applies her newly-acquired knowledge and skill under supervision in the public school setting.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: B.S. in nursing and R.N.; two letters of personal reference and two letters of professional reference; a cooperating school system which has made formal agreement to employ the nurse following this experience; plans to have available medical backup when she returns to the school; completion of application; availability for telephone or personal interview. Priority will be given to school nurses who are from school districts which will assume a significant portion of the economic responsibility for the nurse's education.

NUMBER ENROLLED: 4

NUMBER GRADUATED: 4

INSTITUTION: University of Connecticut Health Center  
Department of Pediatrics  
School of Nursing  
McCook Hospital  
Two Holcomb Street  
Hartford, Connecticut 06112

PROGRAM DIRECTORS: Medical Director - Louis I. Hochheiser, M.D.  
Nurse Coordinator - Lynn Schilling, R.N., M.A.

PROGRAM TITLE: Pediatric Nurse Associate Program

STAGE OF DEVELOPMENT: First class enter January, 1971

CURRICULUM: A four-month course to prepare nurses for providing well child care and counseling as well as management of common pediatric illness, either in the Pediatric Ambulatory Clinic, through the Visiting Nurse Association, or the private pediatric practitioner's office. The course is given in the same setting that pediatric house officers and students are training to allow role changes to evolve, both for the nurses and physicians. In addition, some aspects of curriculum development, role changes, and physician/nurse satisfaction are to be evaluated.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: Licensure as a Registered Nurse and a B.S. degree. Individual exceptions to the B.S. degree can be made.

NUMBER OF STUDENTS ENROLLED: 6 per class - two classes per year

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: Yale University School of Medicine  
Department of Pediatrics  
333 Cedar Street  
New Haven, Connecticut 06510

PROGRAM DIRECTORS: Thomas F. Dolan, Jr., M.D.,  
Medical Director

Katherine Nuckolls, R.N., Ph.D.  
Nursing Director

PROGRAM TITLE: Pediatric Nurse Practitioner

STAGE OF DEVELOPMENT: Operational since October 1969

CURRICULUM: A one year on-the-job educational and  
training program with two main objectives:

1. Prepare the trainee to assume an expanded role in an ambulatory setting.
2. Assessment of content for curriculum construction of new advanced nursing program in the Yale University School of Nursing.

The program is loosely structured and consists of didactic instruction in history-taking, interviewing, and physical examination. The trainees work in the O.P.D. as part of the medical team and gradually accept increasing responsibility for a panel of patients which they follow.

CERTIFICATION: None

ENTRANCE REQUIREMENTS: B.S. degree

This project is to be phased out in October 1971.

A second program leading to a Master's degree at the Yale School of Nursing, of which the aforementioned program is part, began in the fall of 1970. Additional formal training include regularly scheduled courses at the School of Medicine and Public Health, research seminars and a thesis is required. Nurses are expected to follow either an "ambulatory" tract or "inpatient" tract. They will be designated clinical nurse specialists on graduation. Program is similar to the now extant programs in obstetrics and midwifery and psychiatry at the Yale University School of Nursing.



INSTITUTION: Rush Presbyterian-St. Luke's Medical Center  
1753 West Congress Parkway  
Chicago, Illinois 60612

PROGRAM DIRECTORS: Albert L. Pisani, M.D.  
Co-Director

Iris R. Shannon, R.N.  
Co-Director  
Assistant Chairman  
Division of Nursing

PROGRAM TITLE: Pediatric Nurse Associate

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The 16-week course consists of training in  
physical assessment, diagnosis, and clinical  
experience.

DEGREE OR CERTIFICATE  
AWARDED: None

ENTRANCE REQUIREMENTS: Registered nurse; employed in an ambulatory  
pediatric nursing setting; commitment from  
a pediatrician to be her preceptor and  
assurance that she would be allowed to  
function in the new role in her work setting.

NUMBER OF STUDENTS  
ENROLLED: Six

NUMBER OF STUDENTS  
GRADUATED: Twenty-two

INSTITUTION: Frontier Nursing Service  
Wendover, Kentucky 41775

PROGRAM DIRECTORS: Gertrude Isaacs, D.N. Sc.  
Nursing Co-Director

W. B. Rogers Beasley, M.D.  
Medical Co-Director

PROGRAM TITLE: Family Nursing Program

STAGE OF DEVELOPMENT: Developmental

CURRICULUM: This is a full-time one year demonstration program which is service oriented. It is designed to prepare nurses to assume an extended role in the provision of primary family health services, including increased responsibility for : 1. assessment (diagnosis) of the health status of the family and its members in relation to ecological factors; 2. initiation of selective preventive measures; 3. management of health and health related problems indigenous to the area, using mutually (nursing and medical) agreed upon diagnostic and treatment measures; and 4. provision of emergency services in the absence of the physician. This includes consultation with and referral to other members of the health team. The program is offered in an ambulatory care setting with outpost nursing and inpatient care facilities for provision of comprehensive, primary family health services.

CURRICULUM: (Cont'd)

The first trimester focuses on diagnosis and management of common health problems of the individual and his family; the second trimester on parental and child care, focusing in prenatal, postnatal care, the child under six, and family planning; the third trimester offers an option of Outpost Family Nursing or Advanced Nurse-Midwifery. Approximately one-third of the time is devoted to mastering theory.

DEGREE OR CERTIFICATE  
AWARDED:

Certificate

ENTRANCE REQUIREMENTS:

Completion of basic program in nursing with a license to practice as a registered nurse, and a minimum of six months, preferably twelve months, of generalized staff experience. Prospective students are asked to join the staff one to two months prior to admission for orientation to the service.

NUMBER OF STUDENTS  
ENROLLED:

Seven experimental students;  
nine nurse-midwifery students.

NUMBER OF STUDENTS  
GRADUATED:

16 as of April, 1971

INSTITUTION: University of Maine  
Continuing Education Division Office  
96 Falmouth Street  
Portland, Maine 04103

PROGRAM DIRECTOR: George W. Hallett, Jr., M.D.  
Chief of Pediatrics  
Maine Medical Center  
Portland, Maine 04103

PROGRAM TITLE: Pediatric Nurse Associate

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The curriculum is developed to be covered in a 16-week period. The program is designed to develop an expanded role of the nurse in providing total health care to children. The nurse will be trained to give comprehensive well-child care, to identify and appraise acute and chronic illness, to manage minor problems, and to give temporary aid in emergencies with the support and consultative services of the medical profession. The faculty is composed of pediatricians, nurses, and specialists in both medical and paramedical areas. These persons both lecture and assist the students in clinical practice. Patients will be presented in many clinical settings -- nursery, in-patients, out-patients, specialty clinics, and well-baby clinics. The nurse will be trained to see patients on her own, obtaining the history, doing a complete physical examination (including the use of otoscope, ophthalmoscope, and stethoscope), performing a few simple laboratory procedures, and reaching conclusions about the patient's status and needs. Major focus will be placed on well-child care and the primary care of minor illness.

DEGREE OR CERTIFICATE  
AWARDED: A pediatric Nurse Associate Certificate.  
Certificate presented by the Continuing Education Division of the University of Maine stating the essential content of the course, its duration, and the participation of the Maine Medical Center.

ENTRANCE REQUIREMENTS:

1. State of Maine License.

2. Defined job role on completion of program.  
An additional requirement is that the nurse return for one day once monthly to the Maine Medical Center for a period of eight consecutive months for follow-up study.

Weighing heavily in candidate selection, but not essential, are previous training and experience, agency recommendation, and geographical area. Priority will be given to nurses currently working with the underprivileged.

NUMBER OF STUDENTS  
ENROLLED:

6

NUMBER OF STUDENTS  
GRADUATED:

12

INSTITUTION: Massachusetts General Hospital  
Bunker Hill Health Center  
73 High Street  
Charlestown, Massachusetts 02129

PROGRAM DIRECTORS: Medical Directors:  
Alfred Yankauer, M.D.  
John P. Connolly, M.D.

Nursing Director:  
Priscilla M. Andrews, R.N.

PROGRAM TITLE: Pediatric Nurse Practitioner Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: A 16-week on-the-job educational program with two main objectives: (1) to prepare registered nurses for the specific role of pediatric nurse practitioners within a primary pediatric ambulatory care setting; and (2) to promote change in current practices of delivering ambulatory pediatric health care. The course includes 171 hours of classroom teaching and 148 hours of clinical practice. Content seeks to build upon the knowledge and experiences with which registered nurses come to the program, and to provide additional capabilities in history-taking and recording, patient counseling and teaching, assessment of the total health status of children, handling of patients' telephone inquiries, management of common illnesses and follow-up of children in the home and community. In addition, there is emphasis on: (1) the decision-making process; (2) the conflict of role reorientation; (3) teamwork and interprofessional realtions; and (4) the problems of delivery of health services to children and their families.

DEGREE OR CERTIFICATE  
AWARDED: Certificate

ENTRANCE REQUIREMENTS:

All applicants must have completed basic nursing education in a National League for Nursing accredited school of nursing and be licensed as a registered nurse. An applicant must be employed in a comprehensive pediatric care setting where expanded nursing skills can be applied. The applicant and employer must have a commitment for the participant's continuing education after the completion of the Pediatric Nurse Practitioner Program.

NUMBER OF STUDENTS  
ENROLLED:

about 20

NUMBER OF STUDENTS  
GRADUATED:

77

INSTITUTION Children's Hospital of Michigan  
Department of Pediatrics  
Wayne State University College of Medicine  
Detroit, Michigan 48207

PROGRAM DIRECTORS: Medical Director - Paul W. Woolley, Jr., M.D.  
Co-Medical Director - Leslie Pensler, M.D.

PROGRAM TITLE: Pediatric Nurse Practitioner Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: Four month, full-time program with intent to train nurses to become primary vendors of well baby care. The course trains her to expand her role in the care of patients and to actually perform some of the services previously provided by the physician. History and physical diagnosis are stressed as are growth and development. She will also be able to identify the acutely ill child that will need the expertise of a pediatrician. Particular attention is given to the various specialties and community service necessary to provide total care of the child.

DEGREE OR CERTIFICATE AWARDED: Certificate

ENTRANCE REQUIREMENTS: Completion of basic nursing course in an approved nursing school.

NUMBER OF STUDENTS ENROLLED: None at present

NUMBER OF STUDENTS GRADUATED: Two-September 1969



INSTITUTION: Washington University, School of Medicine  
Division of Health Care Research and the  
Edward Mallinckrodt Department of Pediatrics  
4550 Scott Avenue  
St. Louis, Missouri 63110

PROGRAM DIRECTOR: Lawrence Kahn, M.D.

PROGRAM TITLE: Pediatric Nurse Practitioner

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program is eight months in duration and begins each September. It is divided into two periods of four months each, the first being a didactic period and the second being a period of precepteeship. The course is designed to prepare qualified nurses with the skills to provide primary ambulatory pediatric care within the scope of nursing practice. The instruction is based at the St. Louis Children's Hospital and the Division of Health Care Research of Washington University School of Medicine. Faculty is derived from the staff of the St. Louis Children's Hospital, particularly by those whose interests include ambulatory care.

The didactic period includes lectures, conferences and demonstrations stressing the techniques of history taking and physical examinations. Emphasis is also placed on growth and development and common pediatric problems. The major goals of the program are to provide the trainees with the appropriate skills in disease recognition, family counseling and education in several areas of ambulatory pediatrics including routine well baby and well child care, parent counseling in the matters of child rearing including anticipatory guidance.

The second four-month period includes clinical experience in the offices of private pediatricians, as well as the Out Patient Department of the St. Louis Children's Hospital and the Well Baby Clinics of St. Louis County.

A fuller description of the program is available for distribution on request.

Washington University, School of Medicine  
Division of Health Care Research and the  
Edward Mallinckrodt Department of Pediatrics

DEGREE OR CERTIFICATE  
AWARDED:

A Pediatric Nurse Practitioner certificate is  
awarded upon completion of the program.

ENTRANCE REQUIREMENTS:

Applicants must be registered nurses, licensed  
in the state of Missouri. A B.S. degree in  
nursing from an accredited program is preferred  
but not required. Experience in pediatric  
nursing is desirable. A personal interview is  
recommended. Selection will be based on the  
candidate's experience, academic achievement,  
and willingness to adapt to new situations and  
to assume new responsibilities.

NUMBER OF STUDENTS  
ENROLLED:

Six

NUMBER OF STUDENTS  
GRADUATED:

Three will graduate in September 1970.

INSTITUTION: Albert Einstein College of Medicine  
1300 Morris Park Avenue  
Bronx, New York 10461

PROGRAM DIRECTOR: Bertrand M. Bell, M.D.  
Director Ambulatory Care Service  
Jacobi Hospital  
Pelham Parkway and Eastchester Road  
Bronx, New York 10461

PROGRAM TITLE: The Nurse Physician Surrogate

STAGE OF DEVELOPMENT: Operational, pending funds for continuation

CURRICULUM: The program consists of formal didactic lectures given by physicians, physician surrogates, social workers, and hospital administrative personnel, and on-the-job training. Students are taught the fundamentals of history and physical examination, relevant sociology, physiology and pharmacology. The trainee is trained to detect changes in the clinical status of patients, to be certain that patients comply with therapeutic regimens, and to act as the patient's medical advocate making certain that once the physician is made aware of "a change," appropriate action is taken. She renews prescriptions, and changes medication within limits.

On-the-job training in association with a physician continues and reinforces the principles outlined in the didactic lectures. Ultimately each student is capable of functioning as a surrogate follow-up physician.

DEGREE OR CERTIFICATE AWARDED: Pending

ENTRANCE REQUIREMENTS: Trainees will be chosen from among the registered nurses already employed by the hospital and at large to fulfill the need of the hospital.

NUMBER OF STUDENTS ENROLLED: 6

NUMBER OF STUDENTS GRADUATED: 8

INSTITUTION: Albert Einstein College of Medicine  
1300 Morris Park Avenue  
Bronx, New York 10461

PROGRAM DIRECTOR: Bertrand M. Bell, M.D.  
Director, Ambulatory Care  
Bronx Municipal Hospital

PROGRAM TITLE: The Triage or Screening Professional

STAGE OF DEVELOPMENT: Planning

CURRICULUM: The trainee would be trained to decide on whether a person is sick or not sick, if sick, "how sick." With this decision she becomes a traffic control person directing patients to the proper resource for care.

Her training will be identical to that of the nurse physician associate at the same institution except that her on-the-job training will differ. She will in general be older, more experienced, and have the capacity to rapidly make decisions.

DEGREE OR CERTIFICATE AWARDED: None

ENTRANCE REQUIREMENTS: Participants will be selected from registered nurses already on the staff of the hospital.

NUMBER OF STUDENTS ENROLLED: None to date.

NUMBER OF STUDENTS GRADUATED: None to date.

INSTITUTION: Dr. Martin Luther King, Jr., Health Center  
and the Montefiore Hospital  
3674 Third Avenue  
Bronx, New York 10456

PROGRAM DIRECTORS: Harold Wise  
Project Director

Miss Stella Zahn  
Project Director

PROGRAM TITLE: Public Health Nurse Practitioner Program

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program is divided into two orientation areas. Four to six weeks of didactic training is given in the areas of pediatrics, obstetrics, community health advocacy, and the team approach to health care. Continuing in-service orientation is given in conjunction with a special health care team. The emphasis is on producing nurses as generalists rather than specialists to work in home care and in the practitioner role in the clinic. Graduates work with the Dr. Martin Luther King, Jr. Health Center.

DEGREE OR CERTIFICATE AWARDED: None. A master's degree program is being planned.

ENTRANCE REQUIREMENTS: The R.N. degree. R.N. graduates of bachelor programs or with public health experience are preferred.

NUMBER OF STUDENTS ENROLLED: 20 nurses are currently being trained while on the Center staff.

NUMBER OF STUDENTS GRADUATED: 25 to 30 graduates. All of the nurses at the center have taken this program.

INSTITUTION: University of Rochester  
School of Medicine and Dentistry  
260 Crittenden Boulevard  
Rochester, New York 14620

PROGRAM DIRECTOR: Robert A. Hoekelam, M.D., Associate Professor  
of Pediatrics and of Health Services  
260 Crittenden Boulevard  
Rochester, New York 14620

PROGRAM TITLE: Pediatric Nurse Practitioner

STAGE OF DEVELOPMENT: Operational

CURRICULUM: As this publication was being printed, the curriculum was undergoing revision. The following is a summary of the original curriculum which is being modified.

The course of instruction was of four months duration. During the first month there was lectures and discussion periods five mornings a week. Afternoons were devoted to study and clinical projects and patient contact. During the second, third and fourth months, three mornings were occupied with lectures and discussion periods and two mornings were spent doing precepted clinical work in the clinic or private office. During the year following the four months of formal training, the pediatric nurse practitioner is required to return to the training center one day monthly for formal continuing education.

CERTIFICATE AWARDED: A certificate of completion is planned to be awarded to all who have completed the training.

ENTRANCE REQUIREMENTS:

1. Licensure as a registered professional nurse.
2. Knowledge of child development as demonstrated by one of the following:
  - a. Satisfactory completion of a course in child development within three years at a college or university.
  - b. Presently taking a course in child development at a college or university.
  - c. Satisfactory results on an examination selected by the Review Committee covering the subject matter.

NUMBER OF STUDENTS  
ENROLLED:

4-7 in one course. Currently one course  
per year. Planning for two courses per  
year with ten students in each.

NUMBER OF STUDENTS  
GRADUATED:

18

INSTITUTION: Good Samaritan Hospital  
Cincinnati, Ohio 45220

Division of Community Pediatrics  
University of Cincinnati  
College of Medicine

PROGRAM DIRECTOR: Donald J. Frank, M.D.  
Good Samaritan Hospital  
Cincinnati, Ohio 45220

PROGRAM TITLE: Pediatric Nurse Associate

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The sixteen week program provides 192 hours of classroom instruction and planned clinical experience in an approved ambulatory pediatric setting. The course is designed to prepare registered nurses for increased responsibility in primary health care services for children. Emphasis is placed on: growth and development; nutrition; the health history; the basic physical examination; counseling and health guidance; and management of common childhood illness. The trainee is assigned to work with a pediatrician preceptor during her clinical practice. This collaborative experience allows both nurse and physician to identify and work through conflicts involved in role reorientation.

DEGREE OR CERTIFICATE AWARDED: None

ENTRANCE REQUIREMENTS: All candidates must be registered nurses, preferably in Ohio, and be employed in an ambulatory pediatric setting. The pediatrician with whom the nurse works must agree to provide on-the-job supervision and guarantee her the opportunity to function in an expanded role in her practice setting.

NUMBER OF STUDENTS ENROLLED: 10

NUMBER OF STUDENTS GRADUATED: 21



INSTITUTION: St. Christopher's Hospital for Children  
Children and Youth Program  
Philadelphia, Pennsylvania

PROGRAM DIRECTOR: Victor C. Vaughan, III  
Comprehensive Group Health Services  
2539 Germantown Avenue  
Philadelphia, Pennsylvania 19133

PROGRAM TITLE: In-Service Education for Ambulatory  
Pediatric Nurse

STAGE OF DEVELOPMENT: Early Operational

CURRICULUM: 12-week program: Total 180 hours.  
Average 15 hours per week, to include  
the theory and practice in a clinic  
and community setting.

1. Health supervision of preschool  
children including physical and  
developmental appraisal and  
parent guidance.
2. The recognition and management of  
common acute episodes of illness and  
accidents.

Emphasis is given to working with other  
members of the health team in a neighborhood  
health center.

DEGREE OR CERTIFICATE  
AWARDED: None

ENTRANCE REQUIREMENTS: Registered Nurse - Diploma or Degree

NUMBER OF STUDENTS  
ENROLLED: 3

NUMBER OF STUDENTS  
GRADUATED: 4

INSTITUTION: Allegheny County Health Department  
Maternity and Infant Care Project  
3447 Forbes Avenue  
Pittsburgh, Pennsylvania 15213

PROGRAM DIRECTORS: Virginia E. Washburn, M.D., Chief,  
Division of Maternal and Child Health  
Allegheny County Health Department

Lawrence A. Dunegan, M.D.  
Donna Nativio, R.N.

PROGRAM TITLE: Pediatric Specialist Program for  
Public Health Nurses

STATE OF DEVELOPMENT: Operational

CURRICULUM: This is an 18 week on-the-job training  
program consisting of 50 hours of lecture,  
discussion, and demonstration and super-  
vised clinical experience in at least 35  
sessions of the MIC Infant Clinic and/or  
Allegheny County Health Department well  
child conferences. Emphasis is placed  
on interviewing techniques, history-taking,  
nutrition, normal growth and development,  
physical examination and immunization.

The aim of the program is to prepare  
nurses to assume increased responsibility  
in the delivery of well child services includ-  
ing management of minor pediatric illness.

ENTRANCE REQUIREMENTS: Limited to qualified Public Health Nurses  
employed by the Allegheny County Health  
Department.

DEGREE OR CERTIFICATE  
AWARDED: Certificate

NUMBER OF STUDENTS  
ENROLLED: Four nurses

NUMBER OF STUDENTS  
GRADUATED: Twelve nurses as of September, 1970.

INSTITUTION: Memphis and Shelby County Health Department  
814 Jefferson Avenue  
Memphis, Tennessee 38105

PROGRAM DIRECTORS: George S. Lovejoy, B.S., M.D., F.A.A.P.  
Associate Professor of Pediatrics  
University of Tennessee College of Medicine;  
Director,  
Memphis and Shelby County Health Department

Jackie J. Cox, B.S., M.D.  
Resident in Public Health  
Maternal and Child Health Program  
Memphis and Shelby County Health Department

PROGRAM TITLE: Pediatric Nurse Clinician

STAGE OF DEVELOPMENT: Completed first phase of training in June 1970.

CURRICULUM: The program is designed to give an aggressive inservice training program to diploma nurses or degree nurses who will function in an expanded role in child care under the close working relationship and supervision of a pediatrician.

The length of the program is 16 weeks. Each of these weeks is comprised of two informal lecture-discussion sessions by a practicing specialist who is on the faculty of the University of Tennessee College of Medicine. Each session is from 1 to 2 hours in length. There are also two preceptor type training sessions each week of from 2 to 4 hours in a clinical setting, with the physician to nurse ratio 1 to 1, or, 1 to 2.

1. Specialists in varied fields discuss, in an informal setting, in a 1 to 4 or 8 relationship, problems related to that field; answer questions and conduct an in-depth discussion. Each session lasts from 1-1/2 to 2 hours. Materials are given for study and review at home as well as during training hours.

Memphis and Shelby County Health Department  
Pediatric Nurse Clinician

2. Clinical experience. The clinical teaching experience is composed of two sessions per week of 2 to 4 hours with physician to nurse ratio as 1 to 2. This is a preceptor type training, seeing patients together as they come into the clinic with complete discussion of all entities seen, methods of handling, treatments to be given and follow-up. In these settings there is great opportunity to pursue in-depth the weaknesses which are found in the individual nurse's knowledge. The emphasis is on normality and variations from normal with heavy emphasis on entities to be recognized but not to be treated. During the remainder of the week the nurse functions in the capacity of a health department nurse.

CERTIFICATION OR DEGREE  
AWARDED:

A certificate from the Memphis and Shelby County Health Department stating that the nurse has completed the 16-week program in a satisfactory manner.

ENTRANCE REQUIREMENTS:

Either diploma or degree nurse, with at least six months' experience in a large metropolitan health department.

NUMBER OF STUDENTS ENROLLED: 8

NUMBER OF STUDENTS GRADUATED: 4

INSTITUTION: Eye Institute  
Department of Ophthalmology  
Baylor College of Medicine  
Texas Medical Center  
Houston, Texas 77025

PROGRAM DIRECTOR: Louis J. Girard, M.D.  
Chairman, Ophthalmic Training Programs

PROGRAM TITLE: Ophthalmic Nursing Course

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The course is six weeks in duration. The first week is devoted to lectures in the basic sciences. The second and third weeks will consist of didactic teaching in surgical techniques, operating room techniques, and care and maintenance of ophthalmic surgical instruments. Instruction is also given in management of the eye patient in the ophthalmologist's office, use of the lensometer, perimetry, tonometry, simple basic refractions, and muscle imbalances. Clinical experience will be provided in the various eye departments of the affiliated hospitals. During the fourth, fifth and sixth weeks the student may choose special instruction in certain subjects such as ophthalmic surgical techniques, strabisms, clinical photography, tonography, or care of the contact lens patient. The program consists of 90 hours of doctor's lectures, nursing discussions and demonstrations, and 150 hours of planned experience in the courses described.

DEGREE OR CERTIFICATE AWARDED: A Certificate of Proficiency is granted from Baylor College of Medicine.

ENTRANCE REQUIREMENTS: Applicants should be registered nurses already engaged in ophthalmic work or those who desire to prepare for this type of work.

NUMBER OF STUDENTS ENROLLED: Information not available.

NUMBER OF STUDENTS GRADUATED: 90

INSTITUTION: Wilford Hall USAF Medical Center  
Lackland AFB  
San Antonio, Texas 78236

PROGRAM DIRECTOR: Howard H. Johnson, Colonel, USAF, MC  
Chairman, Department of Pediatrics  
Wilford Hall USAF Medical Center

PROGRAM TITLE: Pediatric Nurse Practitioner

STAGE OF DEVELOPMENT: Operational

CURRICULUM: The program consists of a series of lectures and demonstrations and supervised experience in the outpatient clinic, the newborn nursery and to a limited extent the inpatient service. Regular departmental conferences will be attended when applicable to the nurses training. The program covers six months.

Major emphasis will be on practical clinical sessions involving the examination of well children and those with minor illnesses under the close supervision of a pediatrician. Training in the use of visual and auditory screening tests as well as developmental screening tests will be given.

Purpose is to train selected Air Force nurses to act as pediatric associates in carrying out well-child care, screening tests, counseling services and identification and management of minor illnesses.

DEGREE OR CERTIFICATE AWARDED: Certificate of Course Completion.

ENTRANCE REQUIREMENTS: Registered nurse on active duty with US Air Force in Regular or Career Reserve Status. Degree preferred, but not mandatory. Minimum of two years active duty with at least one year in pediatrics.

NUMBER OF STUDENTS ENROLLED: 3

NUMBER OF STUDENTS GRADUATED: Information not available

INSTITUTION: University of Virginia  
School of Medicine  
Department of Pediatrics  
Charlottesville, Virginia

PROGRAM DIRECTOR: Robert E. Merrill, M.D.  
Professor of Pediatrics  
Department of Pediatrics

PROGRAM TITLE: Nurse Clinician Training

STAGE OF DEVELOPMENT: Operational, First course completed.

CURRICULUM: The object of this program is to train registered nurses to adequately complete general history taking and recording plus general physical examination with a view toward detecting abnormality in contradistinction to normality; where abnormality is found, to insure physician attention on an emergency or elective basis, as may be appropriate. In addition, they are trained to provide complete well baby care independently and to independently provide advice and therapy for minor pediatric problems.

The course lasts sixteen weeks and consists of nine seminars and nine two-to-three hour practical exercises each week. The time spent in supervised activity each week is approximately thirty-three hours, minimum.

DEGREE OR CERTIFICATE AWARDED: Certificate as Nurse Clinician

ENTRANCE REQUIREMENTS: Applicant must be a registered nurse, preferably with at least two or three years of practical experience.

NUMBER OF STUDENTS ENROLLED: 4-12

NUMBER OF STUDENTS GRADUATED: 4

## PLANNED OR OPERATIONAL PROGRAMS NOT SUMMARIZED IN DETAIL

The following list includes programs which have been called to the attention of the Professional Requirements Branch, but for which detailed information is lacking. Programs marked with an asterisk (\*) indicate those which are definitely or probably for the purpose of extending nursing roles.

## CALIFORNIA

Title Unknown\*

Martin Luther King Health Center  
Watts  
Los Angeles, California

Title Unknown\*

Dr. Walter Tassem  
Permanente Group of Southern California  
1505 North Edgemont Street  
Los Angeles, California 90027

Emergency Service Technician

Albert M. Elton  
Executive Vice President  
Casa Loma College  
12502 Van Nuys Boulevard  
Pacoima, California 91331

Physician's Assistant

Dr. Woodbury Perkins  
Director of Medical Education  
Mercy Hospital and Medical Center  
4077 Fifth Avenue  
San Diego, California 92103

Title Unknown\*

Dr. Henry R. Schinefield  
Permanente Medical Group  
2200 O'Farrell Street  
San Francisco, California 94115



## CALIFORNIA (continued)

Nurse Practitioner\*

Mrs. Jeanne LeBrun

Clinical Lecturer

Department of Community and Preventive Medicine

Stanford University Medical Center

Stanford, California 94305

Physician's Assistant

Dr. Michael T. B. Dennis

Director, Physician's Assistant Training Program

Stanford Medical Center

Stanford, California 94305

## CONNECTICUT

Surgical Assistant

Alfred Sadler, Jr., M.D.

Blair Sadler, J.D.

Yale University

School of Medicine

New Haven, Connecticut 06510

## DISTRICT OF COLUMBIA

Title Unknown\*

Mrs. Rena D. Harris

Chief of Nursing Services

Department of Health

Health Services Administration

1905 E Street, S.E.

Washington, D. C.

## DISTRICT OF COLUMBIA (continued)

Physician's Assistant

Albert S. Braverman, M.D.  
D. C. General Hospital  
Washington, D. C.

Title Unknown

P. W. Joy  
Associate Administrator for Program Development  
George Washington University Medical Center  
Washington, D. C.

Ophthalmic Technician

Peter Evans, M.D.  
Georgetown University Hospital  
3800 Reservoir Road  
Washington, D. C. 20007

Physician Assistant

Lawrence Crossman  
Executive Officer  
U. S. Department of Justice  
Bureau of Prisons  
Washington, D. C. 20537

Physician's Assistant

Dr. James Bacos  
Washington Hospital Center  
110 Irving Street, N.W.  
Washington, D. C. 20012

Physician's Assistant - Cardiology

Dr. James Bacos  
Washington Hospital Center  
110 Irving Street, N.W.  
Washington, D. C. 20012

## FLORIDA

Expanded Nurse\*

Dr. Pauline Barton, Chairman  
Department of Nursing, Graduate School  
University of Florida  
Gainesville, Florida 36201

Professional Assistant and Associate

Dr. R. A. Henry  
Box 712  
University of Florida  
Gainesville, Florida

## FLORIDA (continued)

Health Care Administrator  
Miss Anastasia M. Hartley  
 St. Petersburg Junior College  
 6605 5th Avenue North  
 St. Petersburg, Florida 33733

## GEORGIA

Anesthesia Assistant  
Dr. P. P. Volpitto, Project Director  
 Anesthesia Assistant Program  
 Medical College of Georgia  
 1459 Gwinnett Street  
 Augusta, Georgia 30902

Physician's Assistant  
Georgia State College  
 33 Gilmer Street  
 Atlanta, Georgia 30303

Physician's Assistant  
Dr. Robert E. Reynolds  
 Medical College of Georgia  
 School of Medicine  
 Augusta, Georgia 30902

## ILLINOIS

Title Unknown\*  
Dr. John A. McLaren  
 Evanston Hospital  
 Diagnosis and Treatment Center  
 Evanston, Illinois 60204

## IOWA

Orthopedic Assistant  
Frank Mulhern, Head  
 Health Occupations Education Department  
 Kirkwood Community College  
 6301 Bowling Street, S.W.  
 P. O. Box 2068  
 Cedar Rapids, Iowa 52406

Pediatric Clinic Associate  
University of Iowa Medical Center  
 Iowa City, Iowa

## KANSAS

Title Unknown\*

Dr. Herbert C. Miller  
University of Kansas Medical School  
Kansas City, Kansas 66102

## KENTUCKY

Electroencephalography Technician

Dr. Harry D. Jamison  
University of Kentucky  
Limestone and Euclid  
Lexington, Kentucky 40506

Radiation Dosimetrist

Dr. Sayeg  
University of Kentucky  
Lexington, Kentucky 40506

Title Unknown\*

University of Kentucky  
Lexington, Kentucky 40506

## MARYLAND

Family Health Supervisor

Dr. A. Golden  
Johns Hopkins University  
School of Hygiene and Public Health  
615 North Wolfe  
Baltimore, Maryland 21205

Primary Care Associate\*

Dr. James Hudson  
Johns Hopkins Hospital  
School of Medicine  
Department of Pediatrics  
Baltimore, Maryland 21205

Community Health Representative

Dr. Richard Unrich  
Chief, Office of Special Services  
Indian Health Service  
7915 Eastern Avenue  
Silver Spring, Maryland 20910

Title Unknown\*

Dr. Marion Murphy, Dean  
School of Nursing  
University of Maryland  
Baltimore, Maryland

## MARYLAND (continued)

Title Unknown  
University of Maryland  
Baltimore, Maryland

## MASSACHUSETTS

Expanded Nurse\*  
Dr. Howard N. Jacobson  
Boston Hospital for Women  
221 Longwood Avenue  
Boston, Massachusetts 02115

Surgical Assistant  
Dr. Gerald Austin  
Massachusetts General Hospital  
32 Fruit  
Boston, Massachusetts

## MINNESOTA

Title Unknown\*  
Alma G. Sparrow, R.N.  
University of Minnesota  
College of Medical Sciences  
2016 16th Avenue South  
Minneapolis, Minnesota

## MISSOURI

Physician Assistant  
William Akers  
Medical Administrative Officer  
Box 4000  
Springfield, Missouri

## NEBRASKA

Title Unknown  
University of Nebraska  
Medical Center  
Lincoln, Nebraska

## NEW MEXICO

Family Nurse Practitioner\*  
Dr. Robert Oseasohn  
University of New Mexico  
Albuquerque, New Mexico

## NEW YORK

Baccalaureate Program in Health Administration

Steven M. Schneeweiss  
Ithaca College  
Ithaca, New York 14850

Physician's Assistant

Dr. Victor Sidel  
Chief of Community Medicine  
Montefiore Hospital  
111 East 210 Street  
New York, New York

Title Unknown\*

Dr. Nicholas Cunningham  
Mt. Sinai School of Medicine  
Department of Community Medicine  
Fifth Avenue and 100th Street  
New York, New York 10029

Title Unknown\*

Dr. Shirley Mayer  
Assistant Commissioner of Health  
New York City Department of Health  
125 Worth Street  
New York, New York

Cardiopulmonary Technician

Edmund J. McTernan, Dean  
School of Allied Health Professions  
State University of New York  
Stony Brook, New York 11790

## NORTH CAROLINA

Title Unknown\*

Miss Audry Booth, R.N.  
Regional Medical Program  
Roxboro Road  
Durham, North Carolina

## OHIO

Anesthesia Assistant

Dr. J. S. Gravenstein  
Project Director, Anesthesia Assistant Program  
Case Western Reserve University  
2109 Albert Road  
Cleveland, Ohio 44106

## OHIO (continued)

Nurse Practitioner\*

Dr. Frank Ellis  
Commissioner of Health  
Cleveland Department of Health  
Cleveland, Ohio

## OKLAHOMA

Physician's Assistant

Dr. John Shearer  
Oklahoma State University  
Stillwater, Oklahoma 74074

## OREGON

Family Physician's Assistant

Dr. Laurel Case  
Assistant Professor and Head  
Division of Family Practice  
University of Oregon Medical School  
Portland, Oregon 97201

## PENNSYLVANIA

Health Department Nurse\*

Dr. Pearl Pitt  
Philadelphia Health Department  
Community Nursing Services  
500 South Broad Street  
Philadelphia, Pennsylvania 19146

Title Unknown\*

Dr. Charles Hertz  
University of Pennsylvania Hospital  
Pediatric Department  
Philadelphia, Pennsylvania 19104

Emergency Medical Technician

Dr. Peter Safar  
Department of Anesthesia  
University of Pittsburgh  
School of Medicine  
Pittsburgh, Pennsylvania 15213

## TENNESSEE

Family Nurse Practitioner\*

Dr. Luther Christman  
Vanderbilt University  
Medical School  
Nashville, Tennessee 37208

## TEXAS

Title Unknown  
Allied Health Careers Institute  
El Centro College of Dallas  
County Junior College District  
Main and Lamar Streets  
Dallas, Texas 75202

## UTAH

MEDEX  
Hillman Castle, M.D.  
Intermountain Regional Medical Program  
50 North Medical Drive  
Salt Lake City, Utah

## WASHINGTON

Cardiopulmonary Technician  
Dr. Paul Shields  
Spokane Community College  
Spokane, Washington

## WISCONSIN

Title Unknown\*  
Dr. Charles Lobeck  
Professor of Pediatrics  
University of Wisconsin Medical School  
Madison, Wisconsin



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